

FIG. 2 (Prior Art)



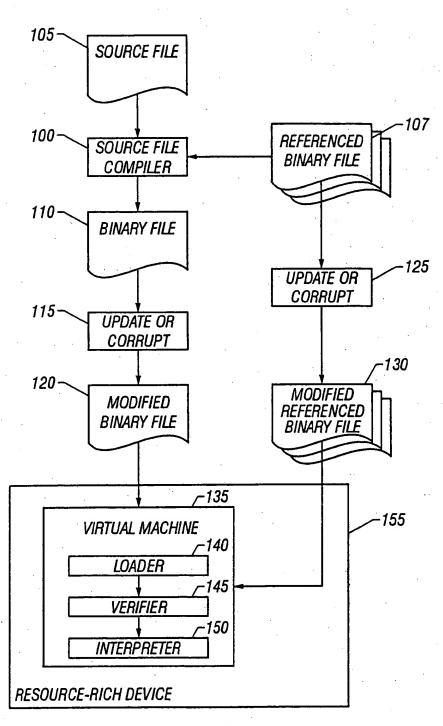


FIG. 3 (Prior Art)



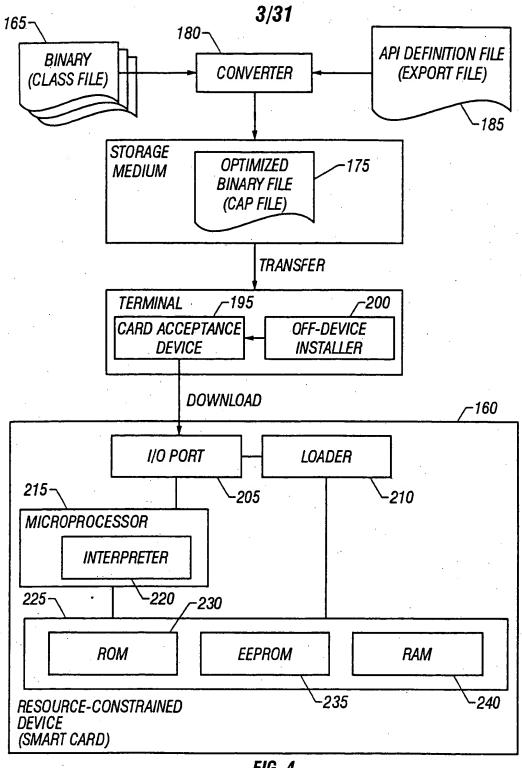


FIG. 4 (Prior Art)



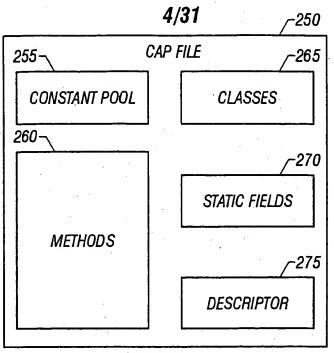


FIG. 5 (Prior Art)

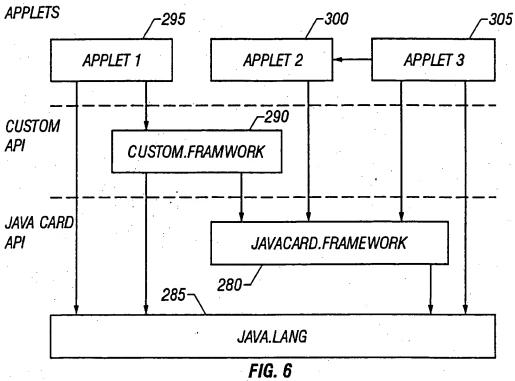
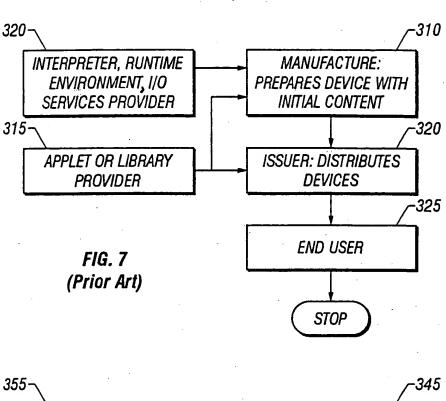
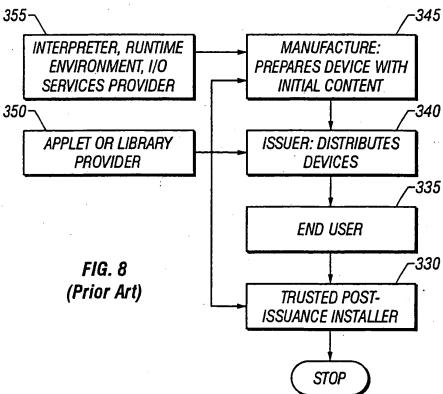


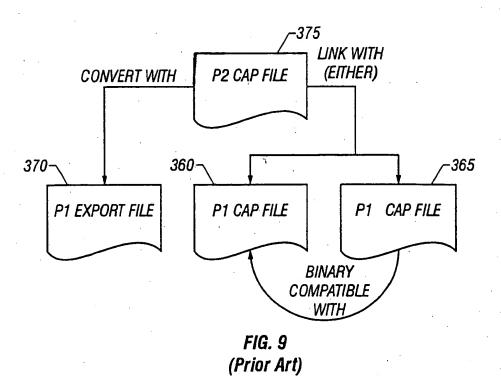
FIG. 6 (Prior Art)





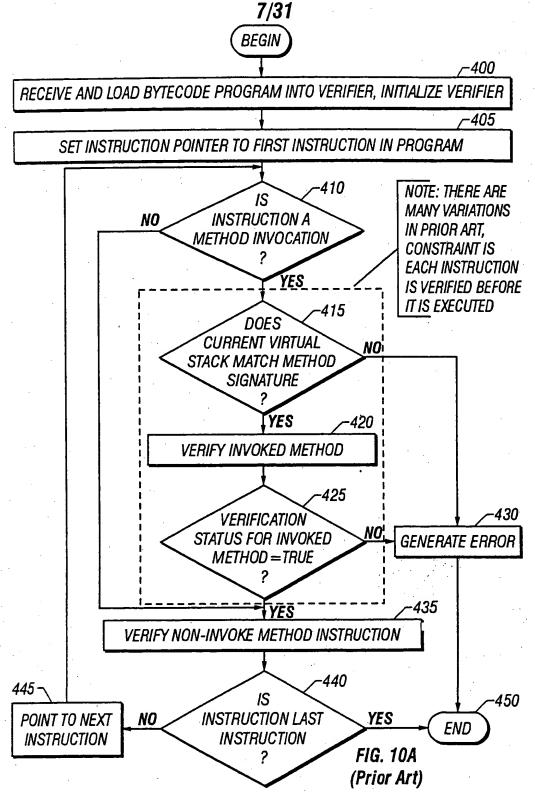


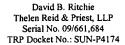










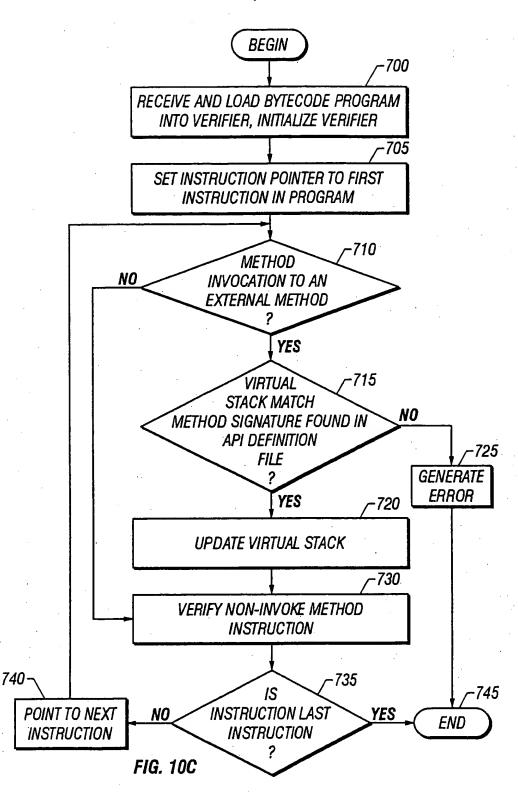




```
Virtual Stack
package a1; \
                                                510-
                   505
import LO;
                        -580
                                                     Before
                                                                      After
class A1 extends object {
                                                 560-
    void A10 (short s) {
       byte ba[] = A11(s);
      return;
                         560
    byte[] A11 (int i) {
       byte ba[]=new byte[i];
                                              570-
                                                     r̀ef: A1
                                                                        int
       ba[0] = (byte)classLO.LQ1(this);
565-
      return ba:
package LO;
                                             590
public class classLO1 { _____575
public static int LO1 (Object o) {
                                                   ref: Object
                                                       int
                                                                      float
585-
       return i;
    private static float LO2 (int i, Object o) {
545 float f;
       return f;\
                                     FIG. 10B
                                     (Prior Art)
```









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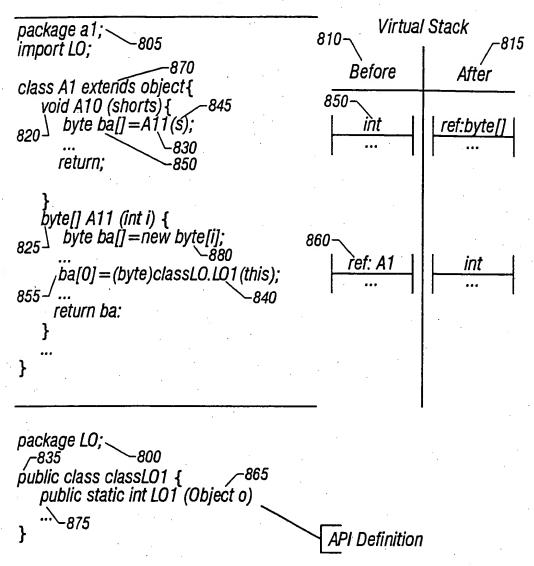


FIG. 10D



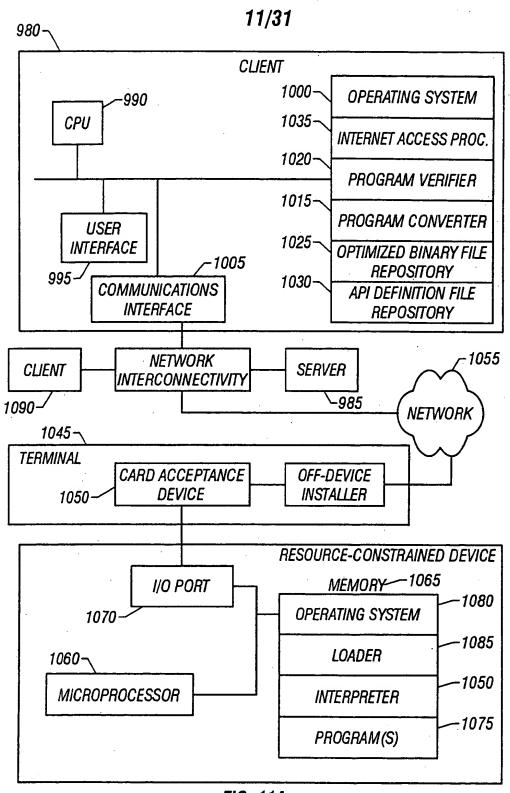


FIG. 11A



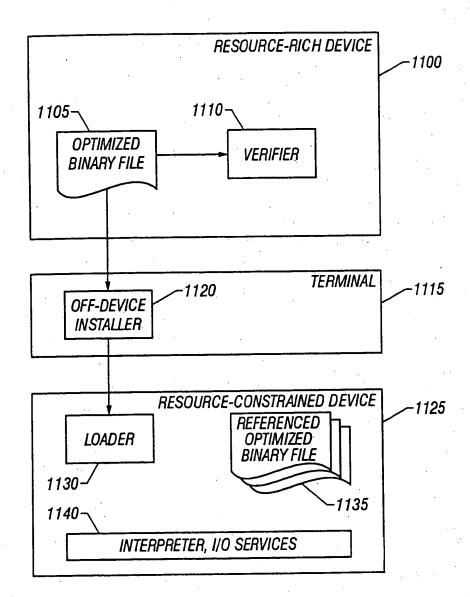


FIG. 11B



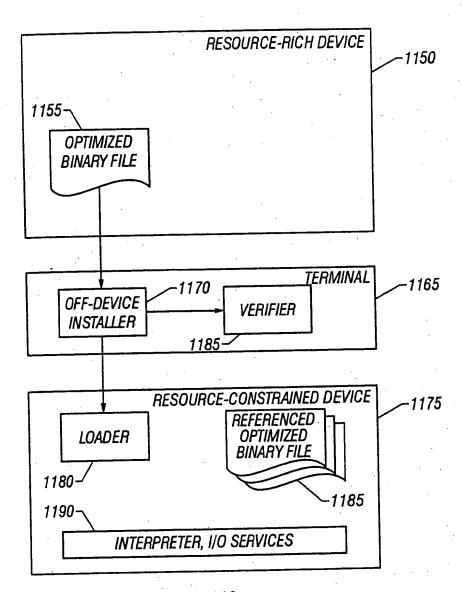
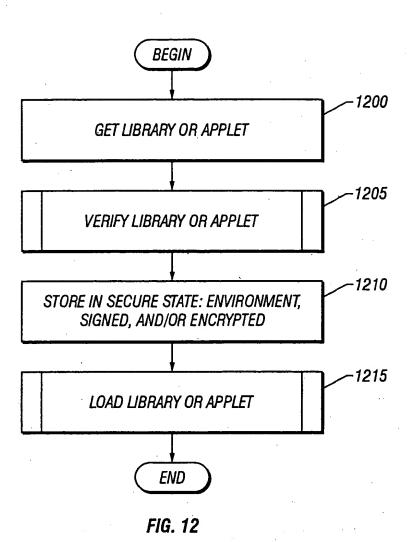


FIG. 11C







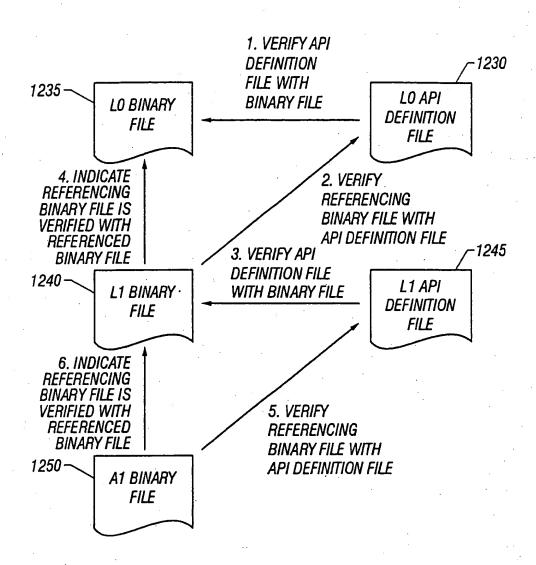


FIG. 13A



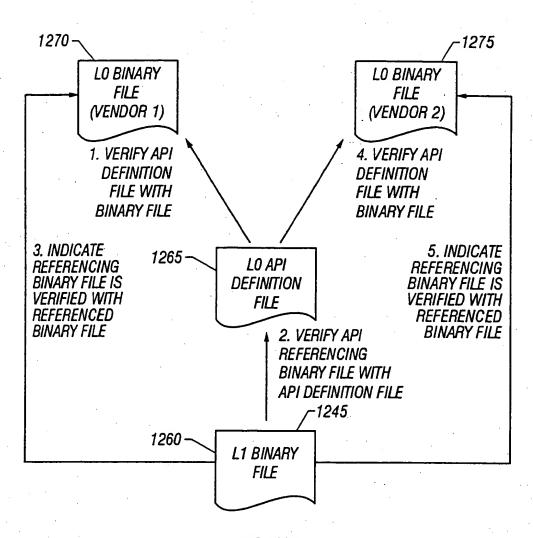


FIG. 13B



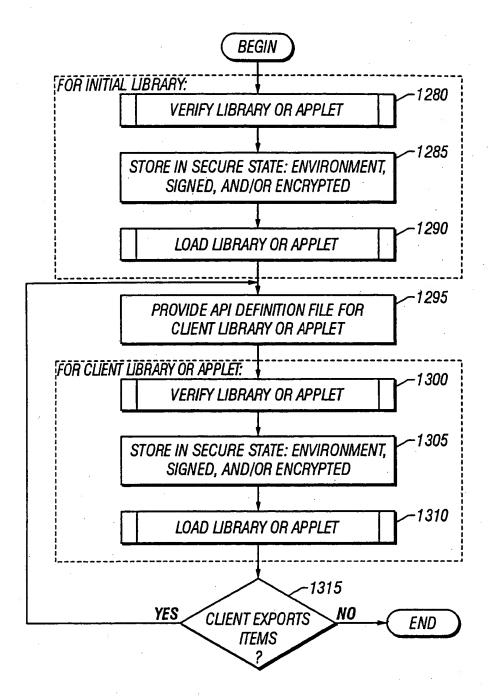


FIG. 14



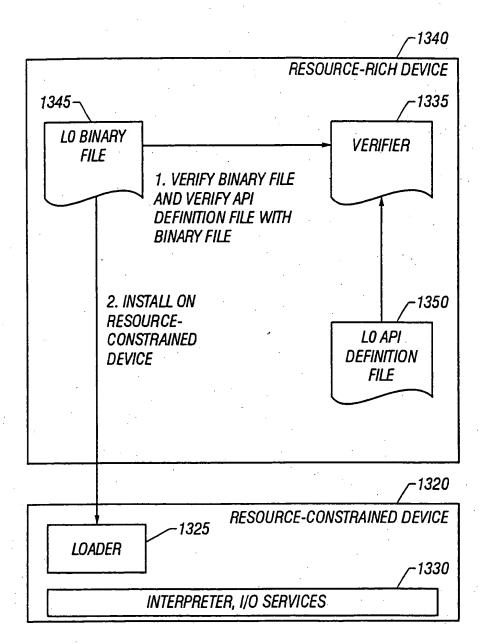
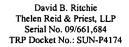


FIG. 15A





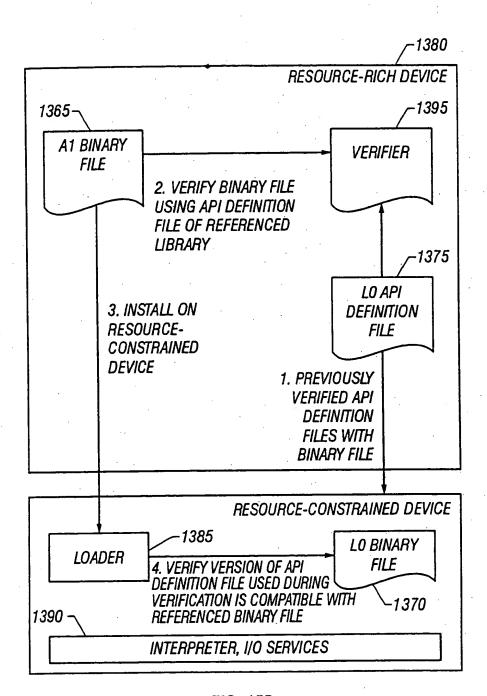


FIG. 15B



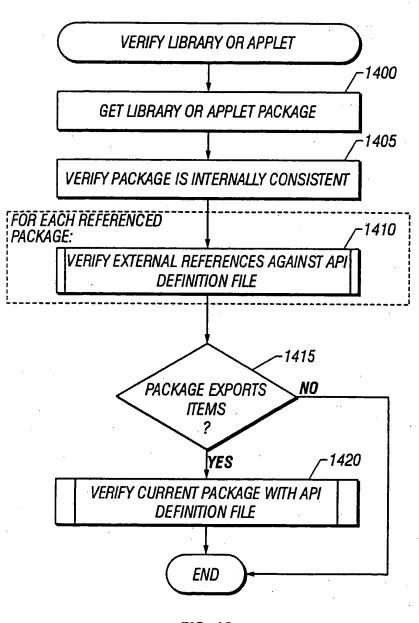


FIG. 16



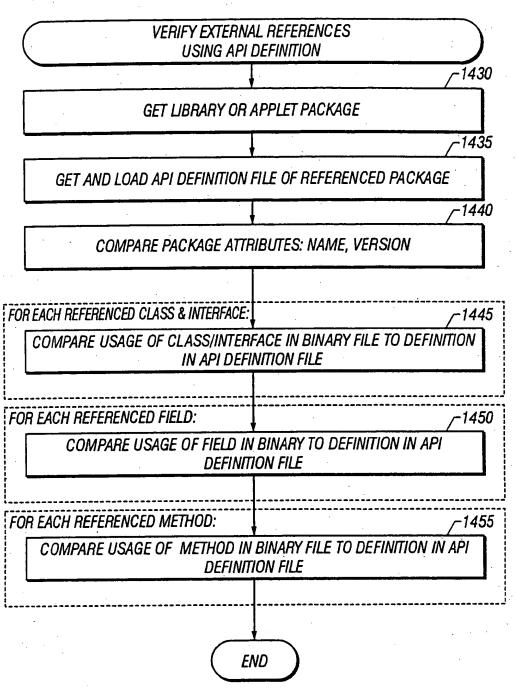


FIG. 17

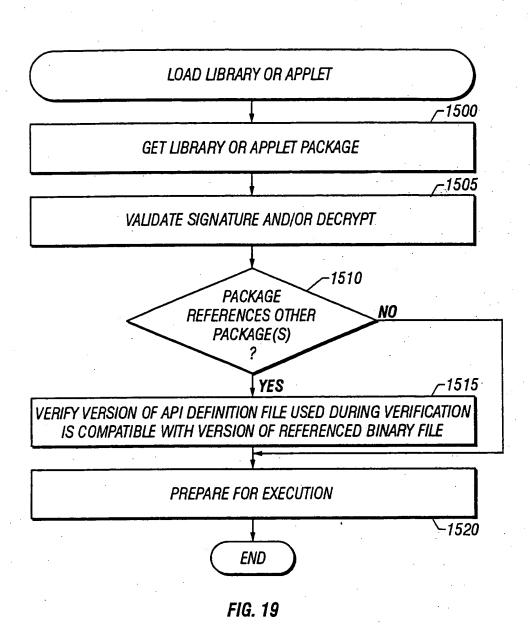


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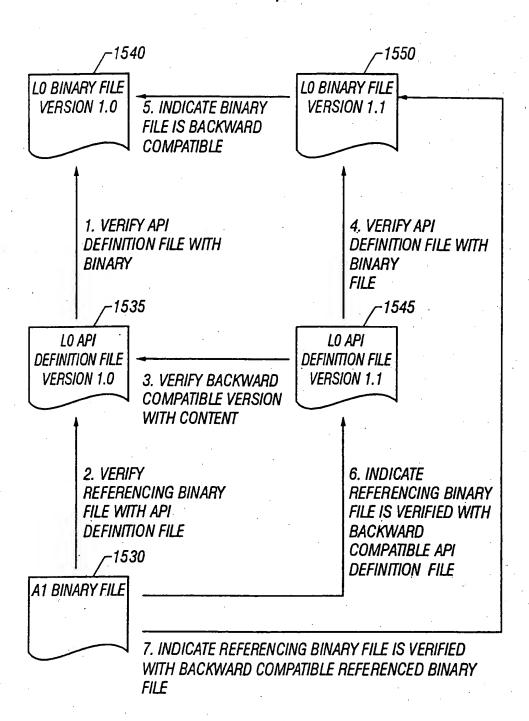
VERIFY PACKAGE WIT	TH API DEFINITION FILE
	-1460
GET LIBRARY OR	APPLET PACKAGE
	/-1465
GET API DEFINITIO	N FILE OF PACKAGE
	_/ -1470
•	OUTES: NAME, VERSION, # OF ID INTERFACES
OR EACH EXPORTED CLASS AND ITERFACE IN BINARY FILE:	_/ -1475
	ES OF CLASS IN API DEFINITION FILE IME, FLAGS, # FIELDS, # METHODS
	1480
COMPARE SUPERCLAS	SSES/SUPERINTERFACES
	-1485
COMPARE IMPLEN	MENTED INTERFACES
FOR EACH EXPORTED FIELD IN BINARY FILE:	<i>–</i> 1490
	ES OF FIELD IN API DEFINITION FILE Y FILE: NAME, FLAGS, TYPE
FOR EACH EXPORTED METHOD IN BINARY FILE:	<i>∕</i> −1495
	PUTES OF METHOD IN API DEFINITION RY FILE: NAME, FLAGS, SIGNATURE
	END)

FIG. 18











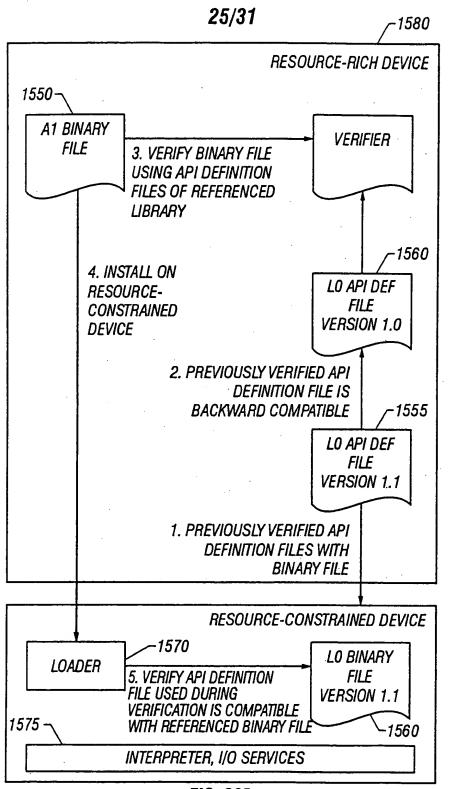


FIG. 20B



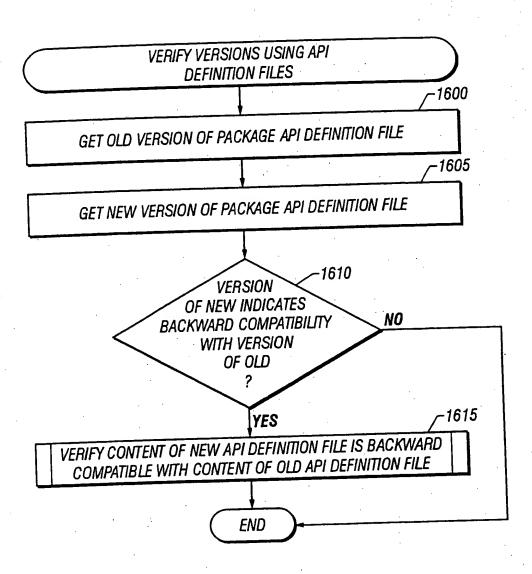


FIG. 20C



VERIFY CONTENT OF NEW API I	DEFINITION FILE IS BACKWARD	
COMPATIBLE WITH CONTENT	OF OLD API DEFINITION FILE	
	<i>–</i> 1620	
OST OLD BACKAGE		
GET OLD PACKAGE API DEFINITION FILE		
	<u>1625</u>	
GET NEW PACKAGE API DEFINITION FILE		
·	_/ -1630	
COMPARE PACKAGE ATTRIBUTES: N	AME, # CLASSES AND INTERFACES	
FOR EACH CLASS AND INTERFACE IN OLD PACKAGE:	,	
• • • • • • • • • • • • • • • • • • • •	E CLASS OR INTERFACE IN NEW , # FIELDS, # METHODS	
	<u>∕</u> 1640	
•	PERINTERFACES OF CLASS OR TO SAME IN NEW PACKAGE	
	_/ -1645	
	ACES OF CLASS IN OLD PACKAGE IEW PACKAGE	
FOR EACH FIELD IN OLD PACKAGE:	<i>∕</i> −1650	
COMPARE ATTRIBUTES TO SAME FIELD IN NEW PACKAGE: NAME, FLAGS, TYPE		
FOR EACH METHOD IN OLD PACKAGE:	<i></i>	
	AME METHOD IN NEW PACKAGE: GS, SIGNATURE	
E	VD VD	
FIG. 20D		



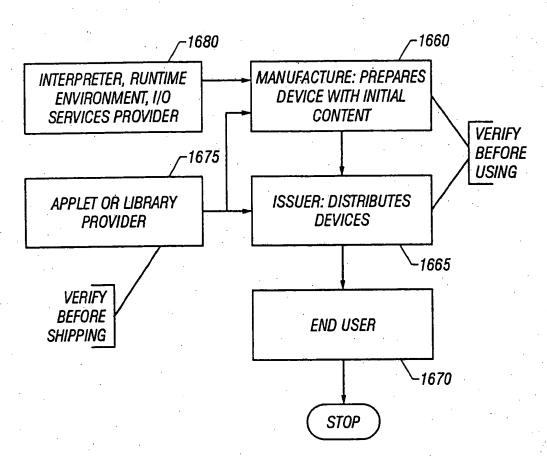


FIG. 21A



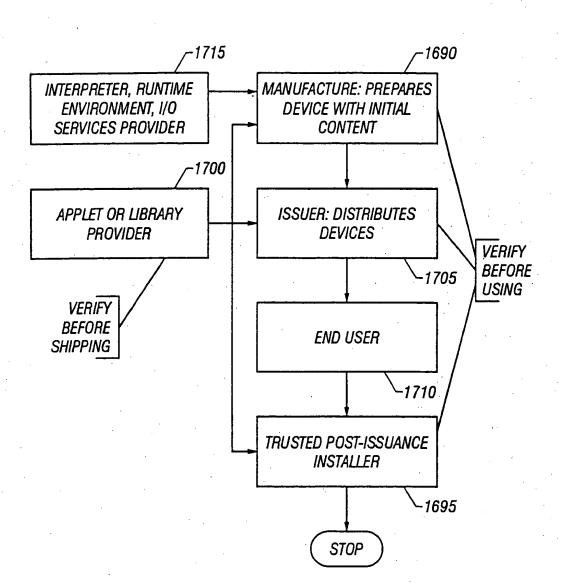


FIG. 21B



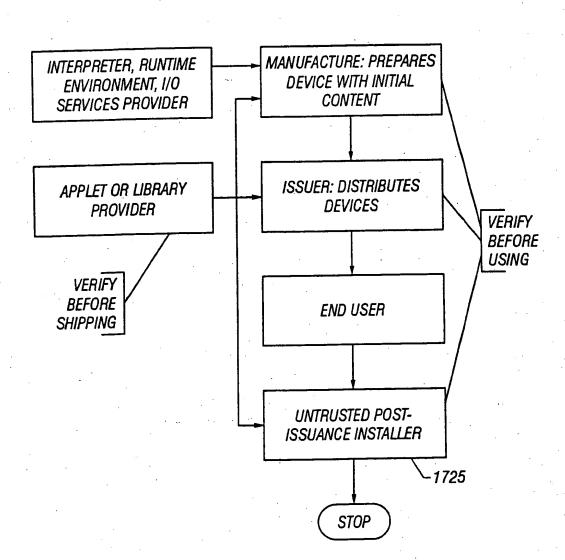


FIG. 21C



